

CLAIMS

1. A method for delivering a treatment chemical down a well bore comprising:
 - a. applying a treatment chemical to a plunger of a free fall design;
 - b. dropping said plunger into a wellbore; and
 - c. retrieving said plunger.
2. A method of claim 1 wherein further comprising the steps of reapplying a treatment chemical to said plunger after it has been retrieved.
3. A plunger apparatus for treating the downhole sections of a wellbore with said plunger during plunger lift production procedures in a well characterized by a treatment chemical deposited on said plunger.
4. A plunger apparatus for a wellbore comprising:
 - a body defining one or more receptacles for a chemical compound;
 - a sealing member positioned on the outside of said body for sealing against the inside of a well bore; andwherein said receptacles further define an opening to the outside surface of said body.
5. A chemical dispenser for use with a plunger in a wellbore comprising:
 - a body defining at least one receptacle for a treatment chemical, and
 - an attachment mechanism connected to said body.
6. A chemical dispenser for use with a plunger in a wellbore comprising:
 - a head member; and
 - a body defining at least one receptacle for a treatment chemical said body also defining one or more upper ports and one or more lower ports.

7. An apparatus of claim 6 further comprising a valve to control liquid flow into said one or more lower ports.

8. A delivery apparatus for delivery of chemicals down a wellbore comprising:

- an elongate member;
- an interface section on the upper portion of said elongate member; and
- a chemical dispensing section in the lower portion of said elongate member.

9. A delivery apparatus of claim 8 wherein said chemical dispensing section is dimension so to be able to pass through a stop at the bottom of a tubing string.

10. A delivery apparatus of claim 8 wherein said chemical dispensing section defines one or more receptacles for receiving treatment chemical.

11. An apparatus for the charging of treatment chemical to a chemical delivery system comprising:

- a conduit in a wellhead manifold which receives a chemical system said conduit having an opening along its length;
- a plunger catcher connected to said conduit;
- an applicator connected to said opening; and
- a delivery conduit connected to said applicator;

12. An apparatus of claim 11 further comprising a chemical storage source connected to said delivery conduit.

13. An apparatus of claim 11 further comprising a valve connected to said delivery conduit.

14. A chemical dispenser of claim 6 further comprising a valve for control of fluid through said lower ports.

15. A chemical dispenser of claim 6 wherein said body further defines a standoff section.

16. A chemical dispenser of claim 6 wherein said at least one receptacle is a wire mesh defining interstices.

17. A chemical dispenser of claim 5 wherein said at least one receptacle is a wire mesh defining interstices.

18. A chemical delivery system for delivering chemicals down a wellbore comprising:

a plunger

a chemical dispenser attached to said plunger said chemical dispenser having one or more receptacles for receiving treatment chemicals.

19. A chemical delivery system of claim 18 wherein said chemical dispenser includes a stand off section, said stand off section and the portion of said dispenser having said one or more receptacles for receiving treatment chemicals are dimensioned such that they can pass through a stop at the bottom of a tubing string.